

File Act 015/025 #6

0008

CO-OP MINING COMPANY

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RECEIVED

MAR 31 1988

**DIVISION OF OIL
GAS & MINING
SALT LAKE CITY**

March 30, 1988

Mr. John Whitehead
Utah Division of Oil, Gas & Mining
355 West North Temple
#3 Triad Center Suite 350
Salt Lake City, Utah 84180-1203

RE: Co-Op Mining Company Annual
Report. Bear and Trail Canyon
Mines ACT 015/021 & 015/025

Dear Mr. Whitehead:

Please find attached a copy of Co-Op Mining Company's Annual Report for 1987.

In additon to the report submittal, I am requesting that all coresspondance relative to Permitting and NOV's please be copied to me personally at P.O. Box 358, Elmo, Utah 84521. In this way, I can take immediate action to facilitate and appropriate response. Material addressed to me at the mine are frequently delayed and sometimes lost. Your assistance in this area will be greatly appreciated.

Sincerely,

Melvin A. Coonrod
Permitting Director

CO-OP MINING COMPANY ANNUAL REPORT 1987

BEAR CANYON AND TRAIL CANYON MINES

1. Vegetation Monitoring
2. Subsidence Monitoring
3. Raptor Survey Results
4. Water Monitoring [Balance of Required Information]

Vegetation Monitoring 1987

On October 11, 1987, E.I.S. conducted a reconnaissance survey of interim revegetation. The areas that were surveyed were:

1. Sediment Pond A: Out slopes and new disturbance associated with pond reconstruction.
2. Sediment Pond B: All new disturbance created with channel alignment and pond construction.

The results of those surveys are as follows:

Species List

| <u>Pond A</u> | <u>Pond B</u> |
|-------------------------|-------------------------|
| Salsola kali | Melilotus occidentalis |
| Chrysothamnus nauseosus | Dactylis sp. |
| Agropyron smithii | Avena |
| Melilotus occidentalis | Kochia scoporia |
| Sitanion hystrix | Ambrosia psilostachya |
| Oryzopsis hymenoides | Penstamon palmeri |
| Kochia scoporia | Chrysothamnus nauseosus |
| Alfalfa sp. | Oryzopsis hymenoides |
| Thistle sp. | Salsola kali |
| Pacific aster | Agropyron crestatum |
| | Agropyron [intermed.] |
| | Agropyron dasystachyum |
| | Pacific aster |

The survey indicated that the site is approximately 70+% vegetative cover and appears stable. No additional seed appears necessary.

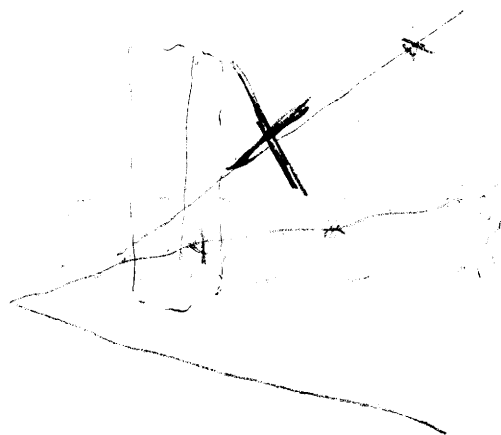
The survey notes are attached as Appendix 1.

[illegible]

Comments & Observations No evidence of erosion or gullying except a few
near top.

[illegible]

Comments & Observations See. Sample 1 from Mt. Lake
Chad. Text description is to sediment + rock
classification () otherwise little info
needed without.



Subsidence Monitoring 1987

Subsidence points were checked twice in 1987. The points were surveyed utilizing the professional services of Blackhawk Engineering. The results of that survey are as follows:

| Station | Location | Original Elev. | Previous Elev. | Latest Elev. | Elevation Change | | Remarks |
|---------|----------------------------------|-------------------|-------------------|-----------------|---------------------|-------|------------------------|
| | | 7/19/87 | 7/19/87 | 10/23/87 | Latest | Acc. | |
| CON-5 | Control point head of Bear | 9379.91 | 9379.91 | 9379.91 | - | - | Control p |
| SMS-1 | Trail/Bear | 9188.57 | 9188.57 | 9188.57 | -0.02 | -0.02 | No Visible Movement |
| SMS-2 | Bear Canyon | 8542.60 | 8542.60 | 8542.42 | -0.18 | -0.18 | " |
| SMS-3 | Trail Canyon | 8769.06 | 8769.06 | 8769.00 | -0.06 | -0.06 | " |
| SMS-4 | Trail Canyon | 8410.00 | 8410.00 | 8410.15 | +0.15 | +0.15 | " |

Note: The area was walked between all stations. No visible movement, cracks, or other subsidence effects were noted during the survey.

Subsidence Monitoring Points are located on Plate 3-3 [Attached end of report]

Raptor Survey 1987

The Co-Op Mine properties were surveyed in the spring of 1987. The survey was conducted in cooperation with the Utah Division of Wildlife Resources. The results of that survey are as follows:

| <u>Species</u> | <u>Year</u> | <u>Nest ID#</u> | <u>Map Reference</u> |
|----------------|-------------|-----------------|--------------------------|
| Golden Eagle | 1987 | 282 | 187.282 |
| Unknown Buteo | 1981 | 79 | 281.79 |
| Unknown Buteo | 1981 | 78 | 281.87 |
| Unknown Buteo | 1981 | 83 | 281.83 |
| Unknown Buteo | 1981 | 80 | 281.80 |
| Unknown Buteo | 1981 | 81 | 281.81 |
| Unknown Buteo | 1981 | 84 | 281.84 |
| Unknown Buteo | 1981 | 85 | 281.85 |
| Unknown Buteo | 1981 | 86 | 281.86 |

A copy of Plate 3-3 is attached showing the survey area and nest locations.

Co-Op Mining requests to suspend all future raptor surveys on their properties until such time that a survey is warranted. This request is based on Appendix R-1, correspondence from UDWR and R-2, DOGM Guidelines for Raptor Surveys. Co-Op will suspend raptor surveys based on the above as of March 1988 unless DOGM objects.